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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/909,661	07/19/2001	Alexander Jacobson	005388.P006	1818
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Daniel E. Ovanezian BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP Seventh Floor 12400 Wilshire Boulevard Los Angeles, CA 90025-1026			EXAMINER	
			CURTIS, CRAIG	
			ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. 09/909,661

Applicant(s)

Office Action Summary

Examiner
Craig Curtis

Art Unit

2872

Jacobson



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Group Art Unit: 2872

DETAILED ACTION

Specification

1. This application does not contain an abstract of the disclosure as required by 37 CFR 1.72(b). An abstract on a separate sheet is required.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness eigentions set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims I-10 and I3-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Soref (4,478,494). With regard to claim I, Soref discloses the invention as claimed--An apparatus, comprising:
- a plurality of ports (See Fig. 3A; col. 4, II. 38-67--col. 5, II. 1-37), each of the plurality of ports to eccive a fiber (See Fig. 3A);
- a plurality of collimating lenses (42, 64, 72, and 75), each of the plurality of collimating lenses to receive a light beam from a corresponding port of the plurality of ports (See Fig. 3A); and

Group Art Unit: 2872

a beamsplitter (43) coupled to the plurality of collimating lenses to receive the light beam from each of the plurality of collimating lenses (See Fig. 3A), the beamsplitter having a common optical aperture disposed on an outer surface area to simultaneously receive the light beams received from each of the plurality of collimating lenses (See Fig. 3A)--EXCEPT FOR an explicit teaching wherein said apparatus further comprises a housing.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have provided the apparatus of Soref with a housing, such provisioning being notoriously old and well-known in the optical apparatus art, for at least the purpose of protecting said beamspliiter, said plurality of ports, and said plurality of collimating lenses, etc.

With regard to claim 2, Soref teaches wherein said beamsplitter comprises a prism (See Fig. 3A).

With regard to claim 3, as no criticality has been associated in the specification with said prism being rhombic; as such, Soref is taken as meeting such teaching.

With regard to claim 4, said beamsplitter of Soref comprises a single reflective polarizer plate (inherent element in PBS 43).

With regard to claim 5, said beamsplitter further has an inner surface, and the light beams has friead: have) a P-polarized and a (read: an) S-polarized component, and wherein the beamsplitter has a coating on the inner surface to separate the S-polarized and P-polarized components of the light beam into spatially separate beams (See Fig. 3A: S-polarized component 44; P-polarized component 45).

With regard to claims 6-10, Soref further teaches wherein said plurality of port comprises a first input port (41, 42) and a second input port (74, 75 in Fig. 3B), said plurality of collimating lenses

Page 3

Group Art Unit: 2872

comprising a first collimating lens and a second collimating lens (as set forth above), and wherein the beamsplitter is coupled to receive a first light beam from the first collimating lens and a second light beam from the second collimating lens (See Figs. 3A, 3B).

With regard to claim 13, said housing having a length of less than approximately 65 millimeters absent criticality being associated with same, taken to be an obvious design choice.

With regard to claim 14, as set forth above, said plurality of collimating lenses are GRIN lenses.

With regard to claim 15, housings constructed of aluminum are notoriously old and well-known in the optical art.

With regard to claim 16, assuming said housing to be constructed as a unitary piece from a block of common material (e.g., aluminum), said common optical aperture would necessarily be thermally matched.

With regard to claim 17, coating the outer surfaces of beamsplitters with anti-reflection coatings is notoriously old and well-known in the optical art.

With regard to claims 18-20, Soref discloses wherein the plurality of ports is arranged in a one-dimensional linear array (See Figs. 3A and 3B), and since criticality has not been associated with regard to said plurality of ports being formed in a two-dimensional array or a two-dimensional array having a hexagonal pattern, such teachings are taken to be obvious, space-saving design choices.

With regard to claim 21, prisms constructed from materials comprising birefringent crystal material is notoriously old and well-known in the polarization art.

Group Art Unit: 2872

3. With regard to claim 11, Soref discloses, as set forth above with respect to claim 10, the invention as claimed--EXCEPT FOR wherein said plurality of ports comprises third and fourth input ports, and wherein the beamsplitter is coupled to receive S-polarized light from the first and third input ports and P-polarized light from the second and fourth input ports, the beamsplitter to combine S-polarized light from the first input port with P-polarized light from the beamsplitter to combine S-polarized light from the second input port with P-polarized light from the fourth input port.

Soref, however, does disclose first and second input ports, the S- & P-polarized components of light propagating therethrough/therefrom being combined as depicted in Figs. 3A & 3B. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified the apparatus of Soref such that it further comprise third and fourth input ports, and wherein said beamsplitter was coupled to receive S-polarized light from the first and third input ports and P-polarized light from the second and fourth input ports, the beamsplitter to combine S-polarized light from the first input port with P-polarized light from the fourth input port, such combination already being taught for light from existing first and second output and input ports, for at least the purpose of processing additional signals within said apparatus, since it has been held that rearranging parts of an invention involves only routine skill in the art. *In re Japikse*, 86 USPQ 70.

With regard to claim 12, the propagation of light from each of the input ports is substantially parallel to each other (See post-reflected light in Figs. 3A, 3B).

Group Art Unit: 2872

With regard to claims 22 and 23 Soref discloses the invention as claimed--EXCEPT FOR wherein said prism of said apparatus has a common optical aperture coupled to said plurality of GRIN lenses to receive light from each of said GRIN lenses, and wherein each of said plurality of input light beams be spatially separated using said common aperture.

However, it would have been obvious to one having ordinary skill in the art at the time the invention was made both to have modified the apparatus of Soref such that its prism have a common eptical aperture coupled to said plurality of GRIN lenses to receive light from each of said GRIN lenses as well as spatially separate each of the plurality of input light beams using the common optical aperture, for at least the purpose of processing additional signals within said apparatus, since it has been held that rearranging parts of an invention involves only routine skill in the art. In re Japikse, 86 USPQ 70.

With regard to claims 24-31, please refer to comments set forth above with regard to like claim limitations previously recited.

Page 6

Page 7

Group Art Unit: 2872

Contact Information

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Craig Curtis, whose telephone number is (703) 305-0776. The facsimile phone number for Art Unit 2872 is (703) 308-7721.

Any inquiry of a general nature regarding to the status of this application should be directed to the .Group receptionist, whose telephone number is (703) 308-0956.

Cassandra Spyrou
Supervisory Patent Examiner
Technology Center 2800

Craig H. Curtis
Group Art Unit 2872
25 October 2002